

Attachment 4

Federal Agency Energy Management Implementation Plan

FY 2006

293D Base Support Battalion

MANNHEIM, GERMANY

I. MANAGEMENT AND ADMINISTRATION.

A. Energy Management Structure.

1. Senior Agency Official

LTC Melissa A. Sturgeon, Commander 293D BSB

2. Agency Energy Team

The 293D BSB Energy consists of four members:

- I. Mr. Kurt N. Marx, Energy Manager.
Mr. Marx is the head of the BSB Energy Team. His responsibility is to identify and to implement energy saving measures and projects as well as to coordinate Energy related matters with higher Headquarters and with Host Nation officials.
- II. Mrs. Nadine Moss, Energy Coordinator and Translator.
Mrs. Moss does all the necessary correspondence, translations, arrangement of appointments and events. She also serves as POC for training of in-house personnel and is the contact person for our local energy suppliers about all organizational and energy/rate structure related questions as well.
- III. Mr. Ulrich Menz, Energy Assistant.
Mr. Menz conducts energy surveys, briefings for the Building Energy Monitors and energy awareness seminars in cooperation with the 293d BSB Public Affairs Office. He identifies energy saving measurements, and notifies the Energy Manager about those; recommends options to solve them and serves as quality assurance evaluator during energy related construction and renovation projects.
- IV. Mr Wild Ralph is the utilities rate clerk and collects all energy related data from our Suppliers; request contract (letter type agreement) modifications through the chain of Command and Host Nation authorities. He maintains the AEWRS for all commodities.

B. Management Tools

1. Awards (Employee Incentive Programs).

It is intended to have every employee who supports this Plan in an enthusiastic and knowledgeable way considered for a recognition IAW the USAREUR and DOD awards program . Emphasis is also given to special efforts and proposal to meet the EO and/or the European criteria for energy saving initiatives. We will prepare for higher echelon award initiatives as well. The Suggestion program is in effect and every report appreciated and will be validated.

2. Performance Evaluations.

Within the 293D BSB, DPW all personnel involved in planning, construction, maintenance or purchase processes are directed to reach the goals of EO 13123 through their position description. Shop Foremen and blue collar employees work in accordance with the rules described in the Standard Operations Procedures, which also point out the goals of the EO 13123. Every idea which may reduce the energy consumption and energy cost is appreciated and can be provided by all 293d BSB employees through the suggestion program as well.

3. Training and Education.

Members of the 293dBSB Energy Team will continue to attend the FY 06 Energy Managers Course and other energy related trainings offered by host nation agencies as well as by the US government . It's intended to send the Energy Manger to the certification training in FY 2006. Additional personnel to be trained is the POC for the Grünstadt AAFES industrial facility and the energy assistant.

All 293D BSB personnel will continue to visit commercial energy related exhibitions, seminars and recitations. The 293D BSB energy awareness campaign which includes the distribution of energy awareness slides via community TV channel and several building energy monitor sessions will be continued. The 293D energy week will be held during April 06 combined with the earth week to demonstrate the close relation between energy saving and environmental protection.

4. Showcase Facilities.

Our local supplier located a suitable roof space to implement a Solar Showcase project in Spinelli Barracks. Unfortunately the current security guidelines do not allow to proceed with this project. However it's not dropped, it's only delayed. The idea and the initiative was to build a 1 MWp Solar roof at no cost for the US government but as a showcase for the german and international market.

In respect of the good partnership between 293D BSB and the local utility supplier company it is considered to designate a roof within the 293D BSB area to implement this project.

II. IMPLEMENTATION STRATEGIES.

A. Life-Cycle Cost Analysis.

Ongoing effort within the organization. Every project will be checked for the LCCA; Host Nation construction office automatically includes LCCAs into their design. New projects not only include a LCCA but also an energy pass to show the overall energy balance.

B. Facility Energy Audits.

During FY 06 we will audit at least 15 % of the 293D BSB Facilities. Again, the priority will be high energy consumption facilities, such as production plants, aircraft hangars, dining facilities and motor pools. Also we will audit facilities with a high number of negative findings during our last audit. Balance of Energy will be calculated accordingly IAW European and Host Nation codes and norms.

C. Financing Mechanisms.

Implement all possible options within normal repair work where shop foremen are forced to order Energy Star supplies. Every IDIQ is reviewed for energy saving opportunities and we program more solar roofs ICW Host Nation. The latter one will be included into the normal repair and renovation program to avoid additional cost. ECIP and FEMP funding has to be programmed and appropriated to allow energy saving measurements such as cisterns (water saving), pump repair (to reactivate a ground water pump) and to allow upgrade our utilities energy monitoring system.

D. ENERGY STAR® and Other Energy-Efficient Products.

In FY 06 the 293D BSB responsible person for purchasing will continue to buy products with high-energy classification. We have a so-called Energy Label on the German market, which is comparable to the ENERGY STAR. The energy label shows the energy efficiency of the labeled appliance via classification. All personnel responsible for purchasing, planning and specifying products will continue to attend technical and energy related trade fares. Shop supervisors get trained to report supplies which do not qualify as energy star products.

E. Sustainable Building Design.

Will be incorporated in every new project as defined by Host Nation guidelines, the EO 13123 and appropriate Standing Operating Orders.

F. Industrial Facility Efficiency Improvements. In FY 06 it is planned to use the rejected heat of the two new compressors to heat the domestic water in the production building AAFES plant Gruenstadt.

G. Highly Efficient Systems.

Every project within 293D BSB, whether renovation or new construction is used as opportunity to improve the building energy efficiency by using energy efficient materials. For example, every roof project is used to improve the roof insulation as well.

The following buildings are designated for solar roof projects:

Grünstadt AAFES Depot:	Bldg 3555, approx. 30,000 SF
Coleman Barracks:	Bldgs 4a, 4, 9, 25
Taylor Barracks:	Bldg 351
Banjamin Franklin Vikkage	Bldg 737, CDC
Sullivan Barracks	Bldg 222

Additionally we coordinated the installation of a solar roof as partnership project through our local supplier:

Spinelli Barracks:	Bldg 1563/65 with 97,900 SF
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This initiative at no cost to the US government is on hold because the new security requirements do not allow visitors at a US facility at any time. Our supplier intended to have an example for alternate energy sources in Mannheim where he is able to present the technique and the benefits to other city works, Host Nation government agencies, customers and clients.

In-house projects scheduled for FY 06 to improve energy efficiency:

Replace oversized boilers: Funari Barracks Bldgs 819, 820, 821 by decentralized systems.

H. Renewable Energy Purchases.

Electricity for the 293D BSB is purchased from local suppliers. To meet the Host Nation requirements about renewable energy sources, the supplier will continue to invest into new renewable energy projects such as wind, solar and biomass energy as well and actual has a high level on experience on that domain.

Currently approximately 10% (7.009.2 MWH in FY 05) of the electricity comes from renewable energy sources, solar systems mostly. In FY 2006 we expect a low from the Ferderal Republic of

Germany, which forces our supplier and others to distribute at least 10% of renewable energy to their customers and at the same time publish the energy mix.

I. Electrical Load Reduction Measures.

During power emergencies the 293D BSB Electrical Emergency Contingency Plan will be activated. In that plan all necessary steps to reduce electricity loads and assurance of the power supply for mission essential and/or other important buildings are described in detail, depending on the type of emergency. We will receive through our supplier- at no cost to the US government- monthly load profiles for every installation which allows the energy manager to adjust the demand through a contract modification; thus reducing the electrical bill.

J. Water Conservation.

The implementation of water economization basically consists of purchase and installation of water saving fixtures, such faucets, automatic shut-off valves etc. and awareness of careful usage.

A BSB water contingency plan is already developed and contains a detailed description of the BSB water facilities as well as a list with contact information for all water utilities. Water meters with interface to our UEMCS system will be installed at all chlorination facilities. The BSB will continue to implement the applicable BMP's as described in the water management plan. The plan also shows the activation of former retention basins, fire retention basins to be used as reservoir for irrigation purposes. In addition to this the Energy Manager will coordinate the activation of two ground water pumps in Coleman Barracks at a performance of 150cm per hour. This water will be used for irrigation as well.

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